

Resource Summary Report

Generated by [dkNET](#) on Aug 24, 2026

HMEC-1

RRID:CVCL_0307

Type: Cell Line

Proper Citation

RRID:CVCL_0307

Cell Line Information

URL: https://web.expasy.org/cellosaurus/CVCL_0307

Proper Citation: RRID:CVCL_0307

Description: Cell line HMEC-1 is a Transformed cell line with a species of origin Homo sapiens (Human)

Sex: Male

Defining Citation: [PMID:1361507](#), [PMID:12453433](#)

Comments: Group: Patented cell line.

Category: Transformed cell line

Organism: Homo sapiens (Human)

Name: HMEC-1

Synonyms: Hmec-1, HMEC1, CDC/EU.HMEC-1, Human Microvascular Endothelial Cell line-1

Cross References: BTO:BTO_0002828, EFO:EFO_0005383, MCCL:MCC:0000200, ATCC:CRL-3243, ChEMBL-Cells:ChEMBL4295409, ChEMBL-Targets:ChEMBL4296433, CLS:304064, Lonza:736, PubChem_Cell_line:CVCL_0307, Wikidata:Q54889921

ID: CVCL_0307

Record Creation Time: 20220427T220436+0000

Record Last Update: 20260815T233935+0000

Ratings and Alerts

No rating or validation information has been found for HMEC-1.

Warning: Discontinued: ATCC; CRL-10636
Group: Patented cell line.

Data and Source Information

Source: [Cellosaurus](#)

Usage and Citation Metrics

We found 773 mentions in open access literature.

Listed below are recent publications. The full list is available at [dkNET](#) .

Ström K, et al. (2026) RAB3GAP2 is a regulator of skeletal muscle endothelial cell proliferation and associated with capillary-to-fiber ratio. *Cell reports*, 45(2), 116961.

Xiao W, et al. (2026) Metabolite-gated vascular contractility switch: OXGR1 activation mechanism enables agonist therapy for rosacea erythema. *Cell*, 189(7), 1990.

Bi T, et al. (2026) Design of RGD-functionalized GSH-responsive pegylated polymeric protacs for selective BRD4 degradation and EndMT-driven cardiac fibrosis inhibition. *Journal of nanobiotechnology*, 24(1).

Grafals-Ruiz N, et al. (2026) M6 metabolite contributes to the efficacy of the Rac/Cdc42 inhibitor MBQ-167 in metastatic breast cancer. *Molecular cancer therapeutics*.

Meermeyer SL, et al. (2026) Biomimetic Fibrinogen Nanofiber Scaffolds for Vascular Hematopoietic Stem Cell Niche Engineering. *Advanced healthcare materials*, 15(5), e03449.

Solernó LM, et al. (2026) Combined treatment using repurposed synthetic peptide desmopressin and bevacizumab as a potential antiangiogenic strategy in osteosarcoma. *Frontiers in medicine*, 13, 1864843.

Wang Y, et al. (2026) LncRNA DANCR Activates p38/mTOR-Mediated Autophagy via ANXA2 to Exacerbate Oxygen-Induced Retinal Neovascularization in Mice. *FASEB journal : official publication of the Federation of American Societies for Experimental Biology*, 40(1), e71364.

List M, et al. (2026) Targeted, receptor-mediated delivery of a masked d-amino acid cell-penetrating peptide for cell-specific phototoxicity. *The FEBS journal*.

De Giorgio F, et al. (2026) Exploiting porphyrin metabolism to inhibit angiogenesis. *Angiogenesis*, 29(2).

Yang T, et al. (2026) Deficiency of Pdap1 Results in Embryonic Lethality and Diminished Vascularization. *FASEB journal : official publication of the Federation of American Societies for Experimental Biology*, 40(2), e71437.

Barral L, et al. (2026) Targeting BMP and TAZ/TEAD mechanotransduction pathways impairs acute myeloid leukemia chemoresistance. *Leukemia*, 40(6), 1151.

Yu S, et al. (2026) Tumor-Derived Exosomal TAGLN2 Promotes Metastasis by Inducing Vascular Permeability and Angiogenesis via the NRP1/SEMA4D/YAP Axis. *Advanced science* (Weinheim, Baden-Wurttemberg, Germany), 13(29), e21962.

Wang X, et al. (2026) Gut microbiota-derived trimethylamine-N-oxide protects pulmonary vascular barrier integrity via Vav guanine nucleotide exchange factor 3 (VAV3)-mediated cytoskeletal remodelling in acute lung injury. *British journal of pharmacology*, 183(15), 4163.

Bacher MC, et al. (2026) Divergent Rickettsia species exhibit distinct mechanisms of actin-based motility. *The Journal of cell biology*, 225(7).

Acevedo-Sánchez Y, et al. (2025) Rickettsia parkeri forms extensive, stable contacts with the rough endoplasmic reticulum. *The Journal of cell biology*, 224(3).

Murphy A, et al. (2025) YAP1::TFE3 mediates endothelial-to-mesenchymal plasticity in epithelioid hemangioendothelioma. *Molecular oncology*.

Nguyen-Tran HH, et al. (2025) Oncostatin M induces epigenetic reprogramming in renal cell carcinoma-associated endothelial cells. *Communications biology*, 8(1), 1541.

Alfaro-García JP, et al. (2025) Characterization of the Temporal Dynamics of the Endothelial-Mesenchymal-like Transition Induced by Soluble Factors from Dengue Virus Infection in Microvascular Endothelial Cells. *International journal of molecular sciences*, 26(5).

Alders L, et al. (2025) The role of IGF-2 and its variants in enhancing endothelial migration and angiogenesis. *Frontiers in cell and developmental biology*, 13, 1598705.

Szczesny-Malysiak E, et al. (2025) NO-induced change in the oxidation state of cytochrome c in endothelial cells monitored by resonance Raman imaging. *Free radical biology & medicine*, 239, 472.